

WHAT IS CLAIMED IS:

1. A cyclone dust-collecting apparatus comprising:

an upper casing having an air suction port formed thereon;

a lower casing connected to the upper casing to form a cyclone chamber;

5 a guide unit disposed between the upper and the lower casing, and having a first channel for swirling a dirt-laden air drawn in through the air suction port, and a second channel for discharging a cleaned air therethrough; and

a filter assembly mounted between the guide unit and the lower casing, for removing a dirt and a dust from the air as drawn in.

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2. The cyclone dust-collecting apparatus of claim 1, wherein the lower casing is provided with a plurality of dust-collecting chambers formed in both sides thereof, for collecting the dust and the dirt separated from the air.

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3. The cyclone dust-collecting apparatus of claim 2, wherein the dust-collecting chambers are partitioned off from the cyclone chamber by a partition, and the partition has a connecting port for allowing the dust and the dirt to move therethrough.

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4. The cyclone dust-collecting apparatus of claim 1, wherein the guide unit comprises:

an upper guide member having a first opening to closely contact with the air suction port of the upper casing and a first duct; and

a lower guide member connected to the upper guide member and having a second opening and a second duct, and

the first opening and the second duct form the first channel and the first duct and the second opening form the second channel.

5 5. The cyclone dust-collecting apparatus of claim 4, wherein on a side of the upper casing is disposed a recess corresponding to an end of the first duct, the recess for allowing the air flowing through the first duct to be discharged to the outside therethrough.

10 6. The cyclone dust-collecting apparatus of claim 4, wherein the second duct is shaped in a spiral.

15 7. The cyclone dust-collecting apparatus of claim 1, wherein the filter assembly comprises a grill for filtering out the dust and the dirt of the air and a supporting frame for supporting the grill.

20 8. The cyclone dust-collecting apparatus of claim 7, wherein the filter assembly further comprises an upper frame connected to an upper end of the grill at one side, and connected to the second opening at the other side, and a lower frame connected to a lower end of the grill.

9. The cyclone dust-collecting apparatus of claim 1, further comprising a locking device for securing the upper casing and the lower casing to each other.

10. The cyclone dust-collecting apparatus of claim 9, wherein the locking

device comprises:

a protrusion formed in a side of the upper casing; and

a locking member disposed at a side of the lower casing, and being locked with the protrusion.

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11. The cyclone dust-collecting apparatus of claim 1, wherein the upper casing and the lower casing are hinged on each other at one side.

12. The cyclone dust-collecting apparatus of claim 1, wherein the upper casing
10 is provided with a handle.

13. The cyclone dust-collecting apparatus of claim 1, wherein between the air suction port of the upper casing and the guide unit is provided a sealing member.

15 14. A cyclone dust-collecting apparatus comprising: ✓

an upper casing having an air suction port formed thereon and a recess formed in a rear portion thereof;

a lower casing connected to the upper casing to form a cyclone chamber and having a plurality of dust-collecting chambers;

20 an upper guide member disposed between the upper and the lower casing and having a first opening closely contacting with the air suction port of the upper casing and a first duct;

a lower guide member connected to the upper guide member and having a second opening and a second duct; and

a filter assembly mounted between the lower guide member and the lower casing, the filter assembly comprising a grill for filtering dirt out of an external air and a supporting frame for supporting the grill, and

the first opening and the second duct forming a first channel and the first duct
5 and the second opening forming a second channel.

15. The cyclone dust-collecting apparatus of claim 14, wherein the second duct is shaped in a spiral.

10 16. The cyclone dust-collecting apparatus of claim 14, wherein the filter assembly further comprises an upper frame connected to an upper end of the grill at one side, and the second opening at the other side, and a lower frame connected to a lower end of the grill.

15 17. The cyclone dust-collecting apparatus of claim 14, further comprising a locking device for securing the upper casing and the lower casing to each other.

18. The cyclone dust-collecting apparatus of claim 17, wherein the locking device comprises:

20 a protrusion formed in a side of the upper casing; and

a locking member disposed at a side of the lower casing, and being locked with the protrusion;

19. The cyclone dust-collecting apparatus of claim 14, wherein the upper casing

and the lower casing are hinged on each other at one side.

20. The cyclone dust-collecting apparatus of claim 14, wherein the upper casing is provided with a handle.

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21. The cyclone dust-collecting apparatus of claim 14, wherein between the air suction port of the upper casing and the upper guide member is provided a sealing member.